

Full
Text

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TI Antibiotic-containing liposomes synthesis method - by mixing phospholipids obtained from seal fat and antibiotic ethanol solution in presence of di:methyl sulphoxide, then freeze-drying

DC B04

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Preparation of liposomes containing antibiotics comprises obtaining phospholipids by known techniques from the subcutaneous fat of seals, then introducing antibiotic as ethanol solution into the ethanolic lipid phase in the presence of dimethyl sulphoxide. After freeze-drying, the antibiotic is suspended in buffered isotonic solution (pH 6.7-6.9) and the suspension is centrifuged to produce a liposome product which is freeze-dried once more.

USE - The process is useful in pharmaceutical products, biotechnology, for making antibiotic drugs in liposomal form.

ADVANTAGE - The method is more economical, it excludes the use of toxic solvents, increases bioavailability and raises antimicrobial activity by a factor of 1.5-2.0 compared with pure antibiotic.

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METHOD OF ANTIBIOTIC-CONTAINING LIPOSOME PREPARING

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